

STIC Translation Branch Request Form for Translation

Phone: 308-0881 Crystal Plaza ¼, Room 2C15 <http://ptoweb/patents/stic/stic-transhome.htm>

SPE Signature Required for RUSH

Information in shaded areas marked with an * is required

Fill out a separate Request Form for each document

*U. S. Serial No. 09/339,959

*Requester's Name: Vida, Melanie Phone No.: 3-306-4220

Office Location: CPK1-4A07 Art Unit/Org. : 2626

Is this for the Board of Patent Appeals? No

Date of Request: 2/4/04

*Date Needed By: 4/4/04

(Please indicate a specific date)

Document Identification (Select One):

Note: If submitting a request for patent translation, it is not necessary to attach a copy of the document with the request.

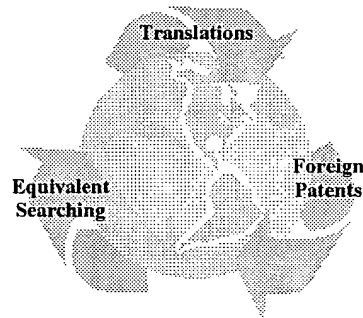
If requesting a non-patent translation, please attach a complete, legible copy of the document to be translated to this form and submit it at your EIC or a STIC Library.

1. 1 Patent *Document No. WO98/03341
*Country Code Japan
*Publication Date 1/29/98
*Language Japanese
No. of Pages _____ (filled by STIC)

2. _____ Article *Author _____
*Language _____
*Country _____

3. _____ Other *Type of Document _____
*Country _____
*Language _____

Translations Branch
The world of foreign prior art to you.



To assist us in providing the most cost effective service, please answer these questions:

- > Will you accept an English Language Equivalent? Yes _____ (Yes/No)
 - > Would you like to review this document with a translator prior to having a complete written translation? (Translator will call you to set up a mutually convenient time) No _____ Yes/No
 - > Would you like a Human Assisted Machine translation? No _____ (Yes/No)
- Human Assisted Machine translations provided by Derwent/Schreiber is the default for Japanese Patents 1993 onwards with an Average 5-day turnaround.

STIC USE ONLY

Copy/Search

Processor: KEJ
Date assigned: 2/5/04
Date filled: _____
Equivalent found: ☒ (Yes) Equivalent

Doc. No.: EP 863019*
Country: US 6538538 B1

Translation

Date logged in: _____
PTO estimated words: _____
Number of pages: _____
In-House Translation Available: _____

In-House

Translator: _____
Assigned: _____
Returned: _____

Contractor:

Name: _____
Priority: _____
Sent: _____
Returned: _____



First Hit**End of Result Set**

L3: Entry 2 of 2

File: DWPI

Jan 29, 1998

DERWENT-ACC-NO: 1998-120582

DERWENT-WEEK: 200208

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Ink-jet image printer - adequately determines switching of different types of dots according to detected darkness per unit area of dots as produced by printer

INVENTOR: KAKUTANI, T; TOSHIAKI, K

PATENT-ASSIGNEE: SEIKO EPSON CORP (SHIH)

PRIORITY-DATA: 1996JP-0327845 (November 22, 1996), 1996JP-0209232 (July 18, 1996)

Search Selected

Search ALL

Clear

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> WO 9803341 A1	January 29, 1998	J	094	B41J002/21
<input type="checkbox"/> US 6338538 B1	January 15, 2002		000	B41J002/205
<input type="checkbox"/> EP 863019 A1	September 9, 1998	E	000	
<input type="checkbox"/> JP 10506790 X	December 8, 1998		000	
<input type="checkbox"/> US 6099105 A	August 8, 2000		000	B41J002/205
<input type="checkbox"/> JP 2001030521 A	February 6, 2001		032	B41J002/205
<input type="checkbox"/> JP 2001225488 A	August 21, 2001		039	B41J002/205

DESIGNATED-STATES: JP US AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE DE FR GB

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 9803341A1	July 17, 1997	1997WO-JP02491	
US 6338538B1	March 17, 1998	1998US-0029865	Cont of
US 6338538B1	May 1, 2000	2000US-0562669	
US 6338538B1		US 6099105	Cont of
EP 863019A1	July 17, 1997	1997EP-0930830	
EP 863019A1	July 17, 1997	1997WO-JP02491	
EP 863019A1		WO 9803341	Based on
JP 10506790X	July 17, 1997	1997WO-JP02491	
JP 10506790X	July 17, 1997	1998JP-0506790	
JP 10506790X		WO 9803341	Based on
US 6099105A	July 17, 1997	1997WO-JP02491	
US 6099105A	March 17, 1998	1998US-0029865	
US 6099105A		WO 9803341	Based on
JP2001030521A	July 17, 1997	1998JP-0506790	Div ex

JP2001030521A	July 17, 1997	2000JP-0175831	
JP2001225488A	July 17, 1997	1998JP-0506790	Div ex
JP2001225488A	July 17, 1997	2001JP-0001733	

INT-CL (IPC): B41 J 2/01; B41 J 2/045; B41 J 2/05; B41 J 2/055; B41 J 2/205; B41 J 2/21; B41 J 2/52; B41 M 5/00; H04 N 1/23; H04 N 1/405

RELATED-ACC-NO: 1998-079190

ABSTRACTED-PUB-NO: US 6099105A
BASIC-ABSTRACT:

The printer receives inputted half-tone data and first refers to a table of recording rates with dark ink. It is determined by a systematic dithering method whether dark dots are formed or not. If it is determined that they are formed, a piezoelectric element (PE) of the print head is driven to form dark dots and a result value (RV) is calculated. If it is determined that dark dots are not formed, the result value RV is 0.

Error diffusion is used to determine whether dots are formed with low darkness ink or not. The darkness error between a formed image and the original image is decreased to a minimum by the ON/OFF of light dots. Therefore, when a printer which prints by using dots whose darkness per unit area is different is used, the ON/OFF of the different types of dots are adequately determined and the quality of the printing can be improved. The presence/absence of dots of achromatic colour ink influences the formation of dots of cyan ink may be employed.

ABSTRACTED-PUB-NO: US 6338538B
EQUIVALENT-ABSTRACTS:

The printer receives inputted half-tone data and first refers to a table of recording rates with dark ink. It is determined by a systematic dithering method whether dark dots are formed or not. If it is determined that they are formed, a piezoelectric element (PE) of the print head is driven to form dark dots and a result value (RV) is calculated. If it is determined that dark dots are not formed, the result value RV is 0.

Error diffusion is used to determine whether dots are formed with low darkness ink or not. The darkness error between a formed image and the original image is decreased to a minimum by the ON/OFF of light dots. Therefore, when a printer which prints by using dots whose darkness per unit area is different is used, the ON/OFF of the different types of dots are adequately determined and the quality of the printing can be improved. The presence/absence of dots of achromatic colour ink influences the formation of dots of cyan ink may be employed.

The printer receives inputted half-tone data and first refers to a table of recording rates with dark ink. It is determined by a systematic dithering method whether dark dots are formed or not. If it is determined that they are formed, a piezoelectric element (PE) of the print head is driven to form dark dots and a result value (RV) is calculated. If it is determined that dark dots are not formed, the result value RV is 0.

Error diffusion is used to determine whether dots are formed with low darkness ink or not. The darkness error between a formed image and the original image is decreased to a minimum by the ON/OFF of light dots. Therefore, when a printer which prints by using dots whose darkness per unit area is different is used, the ON/OFF of the different types of dots are adequately determined and the quality of the printing can be improved. The presence/absence of dots of achromatic colour ink influences the formation of dots of cyan ink may be employed.

WO 9803341A

CHOSEN-DRAWING: Dwg.11/32

DERWENT-CLASS: P75 T01 T04

EPI-CODES: T01-J08A; T01-J10B; T04-G02A; T04-G07; T04-G10A;